



TROPICAL CYCLONE BULLETIN NO. 21
Typhoon KARDING (NORU)

Issued at 2:00 AM, 26 September 2022
 Valid for broadcast until the next bulletin at 5:00 AM today

“KARDING” CONTINUES TO WEAKEN AS CROSSES TARLAC TOWARDS NORTHERN ZAMBALES

<p>Location of Center (1:00 AM)</p> <p>The center of the eye of Typhoon KARDING was estimated based on all available data including those from Subic Doppler Weather Radar in the vicinity of Mayantoc, Tarlac (15.5°N, 121.0°E)</p> <p>Intensity</p> <p>Maximum sustained winds of 140 km/h near the center, gustiness of up to 230 km/h, and central pressure of 935 hPa</p> <p>Present Movement</p> <p>West northwestward at 20 km/h</p> <p>Extent of Tropical Cyclone Winds</p> <p>Strong to typhoon-force winds extend outwards up to 270 km from the center</p>	<p>Track and Intensity Forecast of Typhoon KARDING (NORU) 26 September 2022, 2AM Tropical Cyclone Bulletin #21</p> <p>Legend: ● Super-Typhoon ○ Typhoon ○ Severe Tropical Storm ○ Tropical Storm ○ Tropical Depression ○ Low Pressure Area ○ Area with 10-minute mean winds of 39 km/h (24 kt or 43 mph) ○ Area with 10-minute mean winds of 23 km/h (14 kt or 26 mph)</p>
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TRACK AND INTENSITY FORECAST

Date and Time	Center Position		Location	Intensity		Movement dir. and speed (km/h)
	Lat. (°N)	Lon. (°E)		MSW (km/h)	Cat.	
12-Hour Forecast 11:00 AM 26 September 2022	16.0	118.0	250 km West of Dagupan City, Pangasinan	125	TY	WNW 25
24-Hour Forecast 11:00 PM 26 September 2022	16.0	115.2	550 km West of Dagupan City, Pangasinan (Outside the PAR)	130	TY	W 25
36-Hour Forecast 11:00 AM 27 September 2022	15.7	112.5	800 km West of Central Luzon (Outside the PAR)	140	TY	W 25

TROPICAL CYCLONE WIND SIGNALS (TCWS) IN EFFECT

TCWS No.	Luzon	Visayas	Mindanao
4 Wind threat: Typhoon-force winds	Tarlac, the northern and central portion of Zambales (Santa Cruz, Candelaria, Masinloc, Palauig, Iba, Botolan, Cabangan, San Felipe, San Marcelino, San Narciso), and the southern portion of Pangasinan (Bautista, Alcala, Bayambang, Mangatarem, Urbiztondo, Aguilar, Bugallon, Infanta, Dasol, Burgos, Mabini, Labrador)	-	-
Warning lead time: 12 hours Potential impacts of winds: Significant to severe threat to life and property			

Prepared by: RPG

Checked by: JEMB



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Luzon		Visayas	Mindanao
3 Wind threat: Storm-force winds	The western portion of Nueva Ecija (Cuyapo, Nampicuan, Guimba, Licab, Zaragoza, San Antonio, Talugtug, Lupao, San Jose City, Science City of Muñoz, Talavera, Santo Domingo, Aliaga, Cabanatuan City, Santa Rosa, Jaen, San Leonardo, San Isidro, Cabiao, Peñaranda, City of Gapan, General Mamerto Natividad, Llanera, Quezon), the northwestern portion of Bulacan (San Miguel, San Ildefonso, San Rafael, Baliuag, Pulilan, Calumpit, Hagonoy, City of Malolos, Paombong, Plaridel, Guiguinto, Bustos), Pampanga, the rest of Zambales, the northern portion of Bataan (Dinalupihan, Hermosa, Orani, Samal, Morong, Abucay, City of Balanga, Bagac, Pilar), and the rest of Pangasinan	-	-
	Warning lead time: 18 hours Potential impacts of winds: Moderate to significant threat to life and property		
2 Wind threat: Gale-force winds	The central and southern portions of Aurora (Dingalan, San Luis, Maria Aurora, Baler, Dipaculao), the southern portion of Quirino (Nagtipunan), Nueva Vizcaya, Benguet, La Union, the rest of Nueva Ecija, the rest of Bulacan, the rest of Bataan, the northern portion of Quezon (General Nakar, Infanta), Rizal, Metro Manila, the western portion of Laguna (Santa Maria, City of Calamba, Cabuyao City, City of Biñan, City of Santa Rosa, City of San Pedro), Cavite , and the northwestern portion of Batangas (City of Tanauan, Talisay, Laurel, Tuy, Nasugbu, Lian)	-	-
	Warning lead time: 24 hours Potential impacts of winds: Minor to moderate threat to life and property		
1 Wind threat: Strong winds	Isabela, Mountain Province, Ifugao, Kalinga, Abra, Ilocos Sur, the rest of Quezon, the northern portion of Occidental Mindoro (Paluan, Abra de Ilog, Mamburao, Santa Cruz) including Lubang Islands, the northern portion of Oriental Mindoro (Puerto Galera, San Teodoro, Baco, City of Calapan, Naujan, Victoria, Pola, Socorro, Pinamalayan), Marinduque, the rest of Camarines Norte, Camarines Sur, and Burias Island	-	-
	Warning lead time: 36 hours Potential impacts of winds: Minimal to minor threat to life and property		
Tropical Cyclone Wind Signals in other areas are hereby lifted.			



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HAZARDS AFFECTING LAND AREAS

Heavy Rainfall

- *Until this morning:* Heavy to intense with at times torrential rains over Zambales and Bataan. Moderate to heavy with at times intense rains over the Metro Manila, Tarlac, Pampanga, Bulacan, Rizal, Cavite, the western portion of Batangas, and northern portion of Occidental Mindoro. Light to moderate with at times heavy rains over the rest of Central Luzon, Nueva Vizcaya, Quirino, Laguna, the rest of Batangas, Oriental Mindoro, and the rest of Occidental Mindoro.
- *This morning through afternoon:* Moderate to heavy with at times intense rains over the Zambales, Bataan, Tarlac, and Pampanga.
- Under these conditions, **widespread flooding and rain-induced landslides are still expected**, especially in areas that are highly or very highly susceptible to these hazard as identified in hazard maps and in localities with significant antecedent rainfall.
- Due to the Southwest Monsoon enhanced by KARDING, **occasional to monsoon rains** are still possible in the next 24 hours over the western sections of Southern Luzon (including Metro Manila) and Visayas.

Severe Winds

- During the passage of KARDING, areas under Wind Signal No. 4 will still experience winds peaking at **typhoon-force** strength, while winds may reach **storm-force** in strength within any of the areas where Wind Signal No. 3 is hoisted. **Gale-force** conditions are likely any of the areas where Wind Signal no.2 is hoisted, while **strong winds (strong breeze to near gale strength)** will be experienced within any of the areas where Wind Signal No. 1 is currently in effect.
- **Wind Signals will continue to be lowered or lifted in the succeeding bulletins** as KARDING further weakens and moves across Central Luzon.

Coastal Inundation

Moderate risk of storm surge remains possible over the exposed and low-lying coastal localities of Pangasinan, Zambales, and Bataan. The combined effects of storm surge and high waves breaking along the coast may cause **life-threatening and damaging inundation or flooding**.

HAZARDS AFFECTING COASTAL WATERS

Under the influence of KARDING, a marine gale warning remains in effect over the seaboard of Luzon. For more information, refer to **Gale Warning #5** issued at 5:00 PM yesterday.

TRACK AND INTENSITY OUTLOOK

- KARDING is forecast to emerge over the West Philippine Sea via the coastal waters of Zambales or Pangasinan in the next three hours. Afterwards, the typhoon will continue tracking generally westward over the West Philippine Sea towards Vietnam for the remainder of the forecast period. On the track forecast, it will exit the Philippine Area of Responsibility tonight.
- KARDING is forecast to continue weakening during its traverse of Luzon although it is highly likely that this tropical cyclone will remain a typhoon while crossing the landmass. Re-intensification is forecast to occur once the typhoon is over the West Philippine Sea.

Considering these developments, the public and disaster risk reduction and management offices concerned are advised to take all necessary measures to protect life and property. Persons living in areas identified to be highly or very highly susceptible to these hazards are advised to follow evacuation and other instructions from local officials. **For heavy rainfall warnings, thunderstorm/rainfall advisories, and other severe weather information specific to your area, please monitor products issued by your local PAGASA Regional Services Division.**

The next tropical cyclone bulletin will be issued at 5:00 AM today.